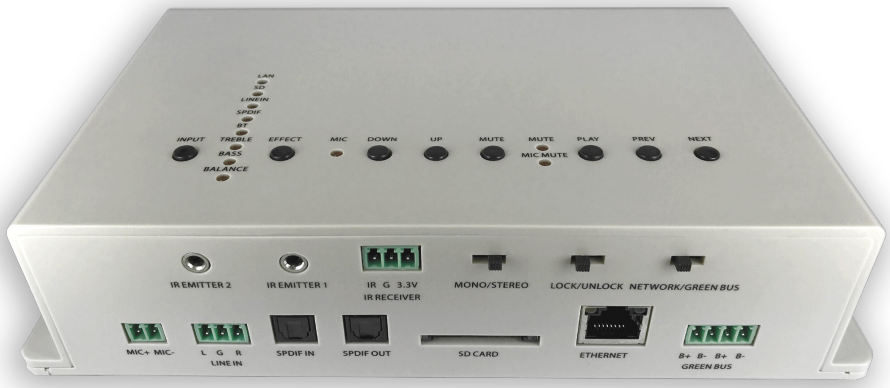
9. MULTIROOM AUDIO SERIES

9.1 Green Audio Multiroom System
AC1425W



I DESCRIPTION

The Green IoT CONTROLS (Green IoT) AC1425W Green Audio Multiroom System is a GreenBUS device that allows powerful control features for audio distribution/streaming.

It comes with an AUX and SPDIF inputs, SD Card, internet radio, MIC (voice over) and up to four speaker outputs (25W each). It supports both stereo and mono modes.

It has LAN, WLAN, GreenBUS, IR receiver, one digital input, two analogue inputs (current sensors compatible), two digital outputs (12V powered), two IR emitters that allow the control of local connected sources.

With WIFI and Bluetooth-AD2P it caters for the user's independent wireless streaming needs. Airplay and DLNA are also supported over the local network.

The SD Card is accessible via embedded ftp server locally or remotely to add, modify or delete media contents. It supports up to two hundred and twenty-five playlists with full media control features like: Play, Pause, Resume, Stop, Volume, and many others.
The device can access any http or https media sources locally or over the internet unlocking the power of playing huge numbers of media content online including but not limited to the Holy Quran.

It also can be used as an Athan player on demand, fire alarm notification system and PA systems.

The AC1425W Green Audio Multiroom System can be cascaded as and when needed to provide solutions for spaces that require way more than just four speakers using optical cables to ensure the audio quality throughout the installations. Optionally normal cables can be used if necessary.

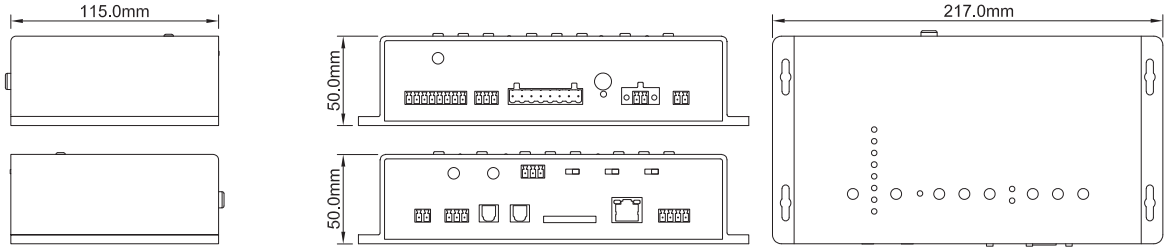
I DEVICE FEATURES

Supports up to 4 speakers (25W each) or 2 speakers (50W each) in mono or stereo mode.
With LAN, WLAN, and GreenBUS enabling multiple options for connectivity.
AUX, SPDIF, SD Card, Internet Radio, Airplay, DLNA sources with MIC support.
Local buttons used to manually control and configure the features supported.
Provides integration with security and safety systems.
LED status indicators (green) which can indicate the device features being controlled.
1 Digital Input for connecting other sensors like motion, door/window contacts or others.
2 Analogue Inputs for connecting sensors like current or any 0-10V sensors.
2 12V Powered Digital Outputs for controlling local connected sources using appropriate 12V relay contactor.
1 Digital Inputs for connecting other sensors like door/window contacts and a 12V Output.
Built- in IR receiver terminal (256 codes).
Supports Zone, Category, Timer and Event control.
Up to 512 actions can be stored.
Incorporates Zone and Category grouping.
Built-in Timer engines supporting up 16 Timers.
Built-in Event engine supporting up to 32 Events with up to 8 triggers, 8 conditions and 128 actions.
32 Flags can be defined to be used as triggers and/or conditions for Event engine.
Programmable onsite or offsite via Smart IoT CONTROLS Configuration Client Software.
Programmed variables are stored in nonvolatile memory and are retained in case of loss of mains or GreenBUS power.
Supports online upgrade.
CE, FCC & RoHs certified.

I TECHNICAL SPECIFICATIONS

Operation Voltage:	DC 24V ±10%
Power Consumption:	4A
Channel Input:	2 Analog inputs, 1 Digital input and IR receiver (NEC)
Channel Output:	4 Ohm speakers, 2 Digital outputs (12V) & 2 IR emitters
Working Temperature:	0°C -55°C
Storage Temperature:	-10°C ~55°C
Working Humidity:	10% ~ 90%
Storage Humidity:	10% ~ 90%
Color:	Grey
Installation:	Surface mounting
Device Dimension:	217x50x115mm (WxHxD)
Packing Dimension:	275x75x240mm (WxHxD)
Net Weight:	460g
Gross Weight:	1223g
Operation and Display:	Push Buttons and Green LED, for displaying the status
CE Mark:	In accordance with EMC and LVD
Protection Class:	IP20, EN60 529

I DIMENSIONS



Side View Front View Top View

I INSTALLATION

Step 1:

Screw the device base to any appropriate levelled surface (see Figure 1).

Step 2:

Connect the stripped wires to the provided male terminal blocks and ensure proper conductivity. Plug in the connected male terminals blocks to the associated female terminals. (see Figure 2).

Step 3:

For detailed wiring diagram (see Figure 3). To dismantle the device, slide up or down gently to release the device through the middle holes of the base.

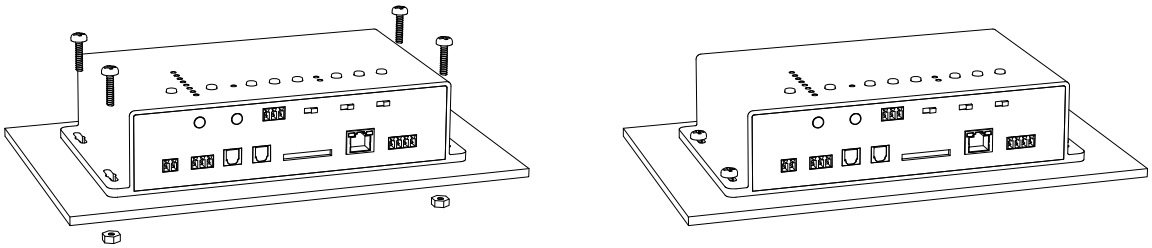


Figure 1

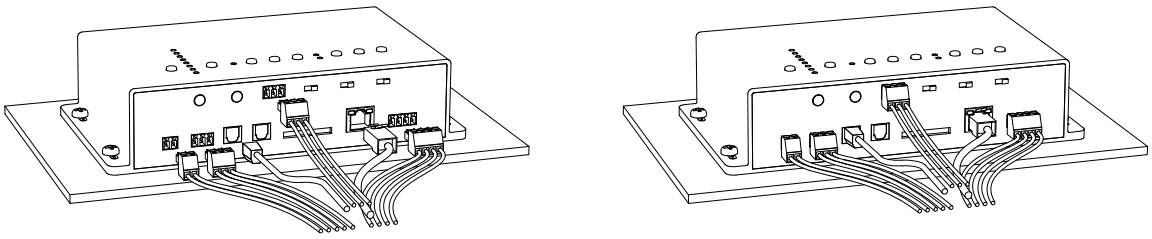
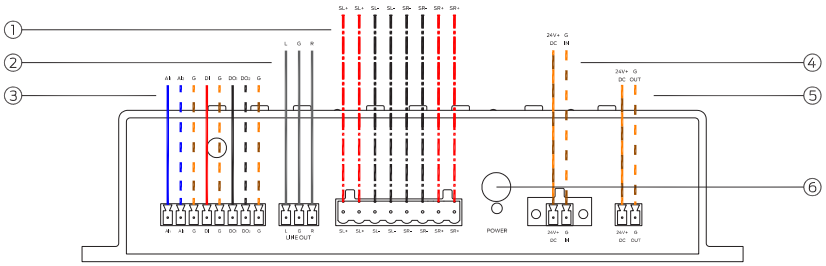


Figure 2

WIRING DIAGRAM

Front View
1. Speakers
2. Line Out
3. Inputs/Outputs
4. Power In
5. Power Out
6. Power Button



Back View
7. IR Receiver
8. Line In
9. Microphone In
10. IR Emitters
11. SPDIF In/Out
12. GreenBUS
13. Functions/Features
14. Ethernet
15. SD Card

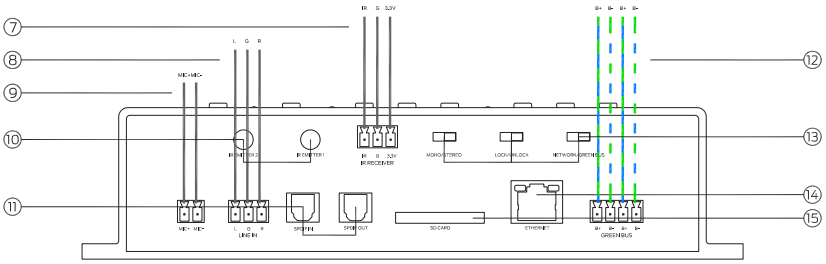


Figure 3: Wiring Diagram

I RECOMMENDED CABLES

Module power input cable:
2.0mm² electrical copper wire.

Load output wire:
2.0mm² electrical copper wire.

Recommended cable configuration:
GND = Brown and White + Orange and White
B-(B)= Blue and White + Green and White
B+(A)= Blue + Green
24V = Brown + Orange